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HNK-1

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Cell Lines

ATCC Number:	TIB-200 order this item
Organism:	<i>Mus musculus</i> (B cell); <i>Mus musculus</i> (myeloma) (mouse (B cell); mouse (myeloma))
Designation:	HNK-1 [HNK1; Leu7]
Depositors:	T. Abo; C. Balch
Strain:	BALB/c (B cell); BALB/c (myeloma)
Tissue:	B lymphocyte; hybridoma
Products:	immunoglobulin; monoclonal antibody; against human natural killer (NK) cells and antigen dependent killer (K) cells (CD57)
Morphology:	lymphoblast
Comments:	Animals were immunized with a membrane extract of the human lymphoblastoid cell line HSB-2. Spleen cells were fused with P3X63Ag8.653 myeloma cells. The antibody also reacts with glycoproteins present on Schwann cells, oligodendrocytes and embryonic neurons. Tested and found negative for ectromelia virus (mousepox). The cells will not grow if the medium lacks 2-mercaptoethanol.
Growth Properties:	suspension
Isotype:	IgM; kappa light chain
Subculturing:	Cultures can be maintained by addition or replacement of fresh medium. Start cultures at 1 x 10 ⁵ cells/ml and maintain between 1 x 10 ⁵ and 1 x 10 ⁶ cells/ml.
Fluid Renewal:	Every 2 to 3 days
Freeze Medium:	culture medium 95%; DMSO, 5%
References:	RF10836: Abo T and Balch CM. A differentiation antigen of human NK and K cells identified by a monoclonal antibody (HNK-1). J. Immunol. 127: 1024-1029, 1981 PubMed: 81265424 RF10837: Abo T et al. Postnatal expansion of the natural killer and killer cell population in humans identified by the monoclonal HNK-1 antibody. J. Exp. Med. 155: 321-326, 1982 PubMed: 82099947 RF33324: Schuller-Petrovic S et al. A shared antigenic determinant between natural killer cells and nervous tissue. Nature 306: 179-181, 1983 PubMed:

	<p>84068120 RF33326: McGarry RC et al. Recognition of myelin-associated glycoprotein by the monoclonal antibody HNK-1. Nature 306: 376-378, 1983 PubMed: 84068158 RF33406: Vincent M and Thiery JP. A cell surface marker for neural crest and placodal cells: further evolution in peripheral and central nervous system. Dev. Biol. 103: 468-481, 1984 PubMed: 84209410 RF33532: McBurney MW et al. Differentiation and maturation of embryonal carcinoma-derived neurons in cell culture. J. Neurosci. 8: 1063-1073, 1988 PubMed: 88154997 RF33539: Tucker GC et al. Identical reactivity of monoclonal antibodies HNK-1 and NC-1: conservation in vertebrates on cells derived from the neural primordium and on some leukocytes. Cell Differ. 14: 223-230, 1984 PubMed: 85024914</p>
Propagation:	<p>ATCC medium: RPMI 1640 medium with 2 mM L-glutamine adjusted to contain 1.5 g/L sodium bicarbonate, 4.5 g/L glucose, 10 mM HEPES, and 1.0 mM sodium pyruvate and supplemented with 0.02 mM 2-mercaptoethanol, 80%; fetal bovine serum, 20% Temperature: 37C</p>
Related Products:	<p>Recommended medium (without the additional supplements or serum described under ATCC Medium) -- ATCC 30-2001 recommended serum 30-2020</p>
BioSafety Level:	1
Shipped:	Frozen
Price:	\$205.00
Revised :	Mar 05, 2001

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